DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD		TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
)	
	•	111

EX

\$	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	000000 0000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	MM MM MMM MMMM MMMM MMMM MM MM MM MM MM	00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
LL LL LL LL LL LL LL LL LL LL LL LL LL	\$			

EDT'

RR RR RR RR

Page

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! FACILITY: EDT -- The DEC Standard Editor

ABSTRACT:

This module computes the current cursor position.

ENVIRONMENT: Runs at any access mode - AST reentrant

AUTHOR: Bob Kushlis, CREATION DATE: September 8, 1979

MODIFIED BY:

1-001 - Original. DJS 12-feb-1981. This module was created by extracting the routine EDT\$\$SC CPUCSPOS from module SCREEN. 1-002 - Regularize headers. JBS 13-Mar-1981

1-003 - Rewrite for new screen logic. JBS 12-Oct-1982
1-004 - Fix a couple of minor bugs. JBS 13-Oct-1982
1-005 - Fix call to EDT\$\$FMT_CHWID. JBS 13-Oct-1982
1-006 - Fix problem with SHL. JBS 27-Oct-1982
1-007 - Fix the cursor position in NOTRUNCATE mode. JBS 09-Nov-1982

1-008 - Fix the cursor positioning again. JBS 10-Nov-1982 1-009 - Change the handling of EDI\$\$G_SHF. JBS 14-Dec-1982 1-010 - Correct tab at front of continued line. JBS 15-Dec-1982

0056

10

16

18901223456789012

33 34

35

40

46

48

4901235556

0055

0031 0032

0033 0034

0035

0036

0037 0038

0039

0040

0041 0042

0044 0045

0046

0047

0048 0049

0051

0052

EDT\$SCRCOMCUR V04-000	EDT\$SCRCOMCUR - compute cursor position Declarations	L 12 16-Sep-1984 01:30:17 14-Sep-1984 12:24:22	VAX-11 Bliss-32 V4.0-742 [EDT.SRC]SCRCOMCUR.BLI;1	Page 2 (2)
; 58 ; 59	0057 1 %SBTTL 'Declarations'			
59 60 61	0057 1 %SBTTL 'Declarations' 0058 1 ! 0059 1 ! TABLE OF CONTENTS: 0060 1 ! 0061 1 0062 1 REQUIRE 'EDTSRC:TRAROUNAM'; 0501 1		•	
63	0061 1 0062 1 REQUIRE 'EDTSRC:TRAROUNAM';			
60 612 65 667 667 667 667 77 77 77 77 77 77 77 77	2503 1 EDT\$\$SC CPUCSPOS : NOVALUE:			
68 69 70	0505 1 0506 1 INCLUDE FILES: 0507 1 0508 1 0509 1 REQUIRE 'EDTSRC:EDTREQ'; 0644 1 0645 1 0646 1 MACROS: 0647 1 0648 1 NONE 0650 1 EQUATED SYMBOLS: 0651 1 0652 1 NONE 0653 1 0654 1 OWN STORAGE: 0655 1 0656 1 NONE 0657 1 NONE			
; 71 ; 72 ; 73	0508 1 0509 1 REQUIRE 'EDTSRC:EDTREQ'; 0644 1			
75	0646 1 MACROS:			
77	0648 1 NONE			
79	0650 1 : EQUATED SYMBOLS:			
80 81	0651 1 ! 0652 1 ! NONE			
; 82 ; 83	0654 1 OWN STORAGE:			
	0655 1 1 NONE			
84 85 86 87 88 88	0657 1 ! 0658 1 ! EXTERNAL REFERENCES: 0659 1 !			
89	0660 1! In the routine			

EDT VO4

```
M 12
                                                                                      16-Sep-1984 01:30:17
14-Sep-1984 12:24:22
EDT$SCRCOMCUR
                     EDT$SCRCOMCUR - compute cursor position
                                                                                                                      VAX-11 Bliss-32 V4.0-742 LEDT.SRCJSCRCOMCUR.BLI;1
                                                                                                                                                                             (3)
                                                                                                                                                                       Page
V04-000
                     EDT$$SC_CPUCSPOS - compute cursor position
                                #SBITL 'EDT$$SC_CPUCSPOS - compute cursor position'
     92
93
                     0662
                                GLOBAL ROUTINE EDT$$SC_CPUCSPOS (
                                                                                                 ! Compute cursor position
     94
95
                     0664
                                     LINE.
                                                                                                   Where to return line number
                     0665
                                      COLUMN
                                                                                                 ! Where to return column number
     96
97
                     0666
                                     ) : NOVALUE =
                     0667
    98
99
                     0668
                     0669
                                  FUNCTIONAL DESCRIPTION:
    100
                     0670
                                          This routine computes the current cursor position returning the line and column numbers in the ref parameters LINE and COLUMN.
    101
                     0671
   102
103
104
105
                     0672
0673
                     0674
                                  FORMAL PARAMETERS:
                     0675
   106
107
                     0676
                                                                Cursor's relative line number
                                    LINE
                     0677
    108
                     0678
                                    COLUMN
                                                                           Cursor's column number
    109
                     0679
   110
                     0680
                                   IMPLICIT INPUTS:
   111
                     0681
                                          EDT$$G_SHF
EDT$$G_TI_WID
EDT$$G_TRUN
EDT$$T_LN_BUF
EDT$$A_LN_PTR
   112
113
114
                     0682
0683
                     0684
   115
116
117
118
                     0685
                     0686
                     0687
                                           EDT$$A_LN_END
                     0688
   0689
                                   IMPLICIT OUTPUTS:
                     0690
                     0691
                                           NONE
                     0692
                     0693
                                  ROUTINE VALUE:
                     0694
                     0695
                                           NONE
                     0696
                     0697
                                  SIDE EFFECTS:
                     0698
                     0699
0700
0701
0702
0703
0704
0705
0706
0707
0708
0709
0710
                                           NONE
                                     BEGIN
                                     EXTERNAL ROUTINE
                                          EDT$$FMT_CHWID;
                                                                                                ! Compute the width of a character
                                     EXTERNAL
                                          EDT$$G_SHF,
EDT$$G_TI_WID,
EDT$$G_TRUN,
EDT$$T_LN_BUF,
EDT$$A_LN_PIR,
                                                                                                 ! The number of columns shifted.
    140
141
142
143
                                                                                                   Width of terminal line.
                     0711
                                                                                                   Truncate or wrap long lines.
                     0712
0713
                                                                                                   Current line buffer.
                                                                                                   Current character pointer.
    144
                     0714
0715
                                           EDTSSA_LN_END;
                                                                                                 ! End of line
                     0716
0717
   146
147
                                     LOCAL
                                           CP.
                                                                                                ! Character pointer into the current record
```

EDT VO4

```
EDT
VO4
```

```
EDT$SCRCOMCUR
                 EDT$SCRCOMCUR - compute cursor position
                                                                      16-Sep-1984 01:30:17
                                                                                                 VAX-11 Bliss-32 V4.0-742
                                                                                                                                         Page
                                                                      14-Sep-1984 12:24:22
V04-000
                 EDT$$SC_CPUCSPOS - compute cursor position
                                                                                                 [EDT.SRC]SCRCOMCUR.BLI:1
                                   LIN,
                                                                                 Relative line number (first line = 0)
   149
                 0719
                                   COL,
                                                                                 Column number (first column = 0), unshifted
  150
                 0720
0721
0722
                                   CHAR WID
                                                                                 Current character
                                                                                 Width of the current character
  152
153
                                   LINE DONE:
                                                                                 1 = we are done with this line
  154
                              LIN = 0:
                               COL = 0:
   156
                               CP = EDTSST_LN_BUF;
   157
                              LINE_DONE = 0:
                 0728
0729
0730
  158
   159
                              WHILE ((.CP LSSA .EDT$$A_LN_PTR) AND ( NOT .LINE_DONE)) DO
   160
                                   CHAR = CH$RCHAR_A (CP);
CHAR_WID = EDT$$FMT_CHWID (.CHAR, .COL);
                 0731
   161
   162
   163
   164
                                   IF ((.COL + .CHAR_WID) LEQ (.EDT$$G_TI_WID + .EDT$$G_SHF))
   165
                 0735
                                   THEN
                 0736
  166
                 0737
   167
                            The character fits on this line, count it and go on to the next.
                 0738
   168
  169
                 0739
                                       COL = .COL + .CHAR_WID
   170
                 0740
                                   ELSE
   171
                 0741
  172
173
                 0742
0743
                            The character does not fit on this line.
   174
                 0744
  175
                 0745
                                       IF .EDT$$G_TRUN
  176
                                       THEN
  177
                                           BEGIN
  178
                 0748
  179
                 0749
                           In TRUNCATE mode, just position to the last column and terminate.
  180
                 0750
   181
                 0751
                                            COL = .EDT$$G_TI_WID + .EDT$$G_SHF - 1;
  182
                                           LINE_DONE = 1;
  183
                                           END
  184
                                       ELSE
  185
                 0755
                                           BEGIN
                 0756
  186
  187
                 0757
                            In NOTRUNCATE mode, try fitting it on the next line. Don't produce too many lines.
  188
                 0758
  189
                 0759
                                            LIN = .LIN + 1
                                            COL = .EDT$$G_SHF + 2;
   190
                 0760
   191
192
193
194
195
196
197
                 0761
                 0762
                            We can't use .CHAR_WID in the next statement because the width of a tab may be
                            different on the new line since it is in a new position.
                 0764
0765
                 0766
                                            IF (.LIN GEQ 255) THEN LINE_DONE = 1 ELSE COL = .COL + EDT$$FMT_CHWID (.CHAR, .COL);
                 0767
0768
   198
                                            END:
   199
                 0769
0770
0771
   200
201
202
                                   END:
                 0772
   203
                 0773
                            In NOTRUNCATE mode, make sure the current character will fit on this line. If it will not,
                            move the cursor to the beginning of the next line.
```

N 12

```
B 13
                    EDT$SCRCOMCUR - compute cursor position
                                                                                   16-Sep-1984 01:30:17
14-Sep-1984 12:24:22
EDT$SCRCOMCUR
                                                                                                                   VAX-11 Bliss-32 V4.0-742
                                                                                                                                                                  Page
V04-000
                                                                                                                                                                         (3)
                    EDI$$SC_CPUCSPOS - compute cursor position
                                                                                                                   [EDT.SRC]SCRCOMCUR.BLI:1
   205
206
207
                    0776
0777
                                    IF (( NOT .EDT$$G_TRUN) AND ( NOT .LINE_DONE) AND (.EDT$$A_LN_PTR NEQA .EDT$$A_LN_END))
   0778
                                    THEN
                    0779
                                         BEGIN
                    0780
                                         CHAR = CH$RCHAR A (CP):
                    0781
                                         CHAR_WID = EDT$$FMT_CHWID (.CHAR, .COL);
                                         IF ((.COL + .CHAR_WID) GTR (.EDT$$G_TI_WID + .EDT$$G_SHF))
                    0784
                                         THEN
                    0785
                                              BEGIN
                    0786
                                              LIN = .LIN + 1
                    0787
                                              COL = .EDT$$G_SHF + 2;
                    0788
                                              END:
                    0789
                    0790
                                         END:
                    0791
                    0792
0793
                                    .LINE = .LIN;
                                     .COLUMN = MAX (0, MIN (.COL - .EDT$$G_SHF, .EDT$$G_TI_WID - 1));
                    0794
                                                                                              ! of routine EDT$$SC CPUCSPOS
                                    END:
                                                                                                 .TITLE EDT$SCRCOMCUR EDT$SCRCOMCUR - compute cursor po
                                                                                                                             sition
                                                                                                 .IDENT \V04-000\
                                                                                                .EXTRN EDT$$FMT_CHWID, EDT$$G_SHF
.EXTRN EDT$$G_TI_WID, EDT$$G_TRUN
.EXTRN EDT$$T_LN_BUF, EDT$$A_LN_PTR
.EXTRN EDT$$A_LN_END
                                                                                                 .PSECT
                                                                                                           _EDT$CODE,NOWRT, SHR, PIC,2
                                                                       OFFC 00000
                                                                                                 .ENTRY
                                                                                                           EDT$$SC_CPUCSPOS, Save R2,R3,R4,R5,R6,R7,-
                                                                                                                                                                       0663
                                                                                                           R8,R9,RT0,R11
                                                                          9E 00002
9E 00009
9E 00010
04 00017
                                                  5B 000000006
5A 000000006
59 00000000
                                                                                                           EDTSSG_TI_WID, R11
EDTSSG_SHF, R10
EDTSSFMT_CHWID, R9
                                                                                                MOVAB
                                                                     00
                                                                                                MOVAB
                                                                     00
58
                                                                                                MOVAB
                                                                                                                                                                       0724
0725
0726
0727
                                                                                                CLRL
                                                                                                           LIN
                                                                          04
                                                                             00019
                                                                                                CLRL
                                                                     50555558550556A135
                                                                                                           COL
                                                                          9E 0001B
                                                  55 00000000G
                                                                                                MOVAB
                                                                                                           EDT$$T_LN_BUF, CP
                                                                                                           LINE DONE
CP. EDISSA_LN_PTR
                                                                                                CLRL
                                                                             00024 15:
                                    0000000G
                                                                                                CHPL
                                                  00
                                                                          D1
                                                                             0002B
0002D
                                                                                                BGEQU
                                                  4F
57
                                                                                                           LINE DONE, 6$ (CP) +, CHAR
                                                                                                BLBS
                                                                              00030
                                                                                                                                                                       0731
0732
                                                                                                MOVZBL
                                                                              00033
                                                                          DD
                                                                                                PUSHL
                                                                                                           COL
                                                                             00035
                                                                                                           CHAR
                                                                          DD
                                                                                                PUSHL
                                                                          FB
DO
                                                                              00037
                                                  69
56
51
68
50
                                                                                                           #2, EDT$$FMT_CHWID
                                                                                                CALLS
                                                                                                          RO, CHAR_WID CHAR WID, COL, R3 EDT$$G_SHF, R1 R1, EDT$$G_TI_WID, RO R3, RO
                                                                              0003A
                                                                                                MOVL
                                                                              0003D
                                                                                                                                                                       0734
                                53
                                                                          C1
                                                                                                ADDL3
                                                                             00041
                                                                          D0
                                                                                                MOVL
                                                                              00044
                                50
                                                                          C1
                                                                                                ADDL3
                                                                              00048
                                                                          D1
                                                                                                CMPL
                                                                              0004B
                                                                                                BGTR
                                                   52
                                                                              0004D
                                                                                                                                                                       0739
                                                                          CO
                                                                                                ADDL2
                                                                                                           CHAR_WID, COL
                                                                          11 00050
                                                                                                BRB
```

EDT VO4

; R

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EDT\$SCRCOMCUR V04-000	EDT\$SCRCOMCUR - compuEDT\$\$SC_CPUCSPOS - c	ute cursor posit compute cursor p	ion osition	C 13 16-Sep-19 n 14-Sep-19	084 01:30:17 084 12:24:22	VAX-11 Bliss-32 V4.0-742 [EDT.SRC]SCRCOMCUR.BLI;1	Page 6 (3)
		06 00000000G 52 FF	00 ES A0 9E 0F 11 58 D6	9 00052 2\$: E 00059 1 00050 6 0005F 3\$:	BLBC EDT\$\$(MOVAB -1(RO) BRB 4\$	S_TRUN, 3\$ 0, COL	; 0745 ; 0751 ; 0752 ; 0759
	000000FF	52 02 8F	A1 9E 58 D1	F 00061	INCL LIN MOVAB 2(R1) CMPL LIN,	, COL 1255	; 0759 ; 0760 ; 0766
		54	G1 D0	0 00065 4 \$:	MOVL #1, L. BRB 1\$	INE_DONE	
		69 52	57 DE 50 CE	0 00073 5\$: 0 00075 B 00077 0 0007A	PUSHL COL PUSHL CHAR CALLS #2, EI ADDL2 RO, CO	DT\$\$FMT_CHWID	
		33 00000000G	A5 11 00 E8 54 E8	8 0007F 6>:	BRB 1\$ BLBS EDT\$\$(BLBS LINE_I	G_TRUN, 7\$ DONE, 7\$	0729 0777
	00000000	G 00 00000000G 57	A5 11 00 E8 54 E8 00 D1 23 13 85 DE 57 DE	1 00089 3 00094 A 00096 D 00099	BEQL 7\$ MOVZBL (CP)+	A_LN_PTR, EDT\$\$A_LN_END , CHAR	0780
		69 56	57 DE 02 FE	D 00099 D 0009B B 0009D	PUSHL COL PUSHL CHAR CALLS #2, EI MOVL RO, CI ADDL3 CHAR	DT\$\$FMT_CHWID	0781
	53 50	69 56 52 51 6B	02 FE 50 DC 56 C1 6A DC	D 0009B B 0009D O 000A0 1 000A3 O 000A7	MOVL EDTSS	HAR_WID WID, COL, R3 G_SHF, R1 DT\$\$G_TI_WID, R0	0783
		6 B 50	51 C1 53 D1 06 15 58 D6 A1 96 58 D6	1 000AE 5 000B1 6 000B3	CMPL R3, R0 BLEQ 7\$ INCL LIN)	0786
	04	52	6A C2	1 000AE 5 000B1 6 000B3 E 000B5 0 000B9 7\$:	MOVAB 2(R1) MOVL LIN, 6 SUBL2 EDT\$\$	COL DLINE S.SHF, R2	0787 0792 0793
	50	6B 50 52	01 C3 52 D1 03 15	1 000C4 5 000C7	CMPL R2, R6 BLEQ 8\$		
) (50 DC 52 D5 02 18 52 D4	0 00009 5 00000 8\$: 8 0000E 4 000D0 0 000D2 9\$: 4 000D6	MÖVL RO, RO TSTL R2 BGEQ 9\$ CLRL R2 MOVL R2, a		
	08	BC	52 DQ	0 000D2 9\$: 4 000D6	MOVL R2, a	COLUMN	0794

; Routine Size: 215 bytes. Routine Base: _EDT\$CODE + 0000

0795 1 0796 1 !<BLF/P/GE> ; 225 ; 226

EDT VO4

**

0797 1 END 0798 1 0799 0 ELUDOM

EDT\$SCRCOMCUR

Name

_EDT\$CODE

V04-000

PSECT SUMMARY

Bytes Attributes

215 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

Library Statistics

file	Total	- Symbols Loaded	Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[EDT.SRC]EDT.L32;1	377	0	0	40	00:00.2
_\$255\$DUA28:[EDT.SRC]PSECTS.L32;1	2		50	7	00:00.1

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:SCRCOMCUR/OBJ=OBJ\$:SCRCOMCUR MSRCJ:SCRCOMCUR.BLI/UPDATE=(ENH\$:SCRCOMCUR)

Size: 215 code + 0 data bytes
Run Time: 00:14.6
Elapsed Time: 00:31.0
Lines/CPU Min: 3274

Run Time: 00:14.6 Elapsed Time: 00:31.0 Lines/CPU Min: 3274 Lexemes/CPU-Min: 9127 Memory Used: 95 pages Compilation Complete 0138 AH-BT13A-SE VAX/VMS V4.0

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